CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.11/KRIDL/CSR-08/111a/CEMENT/2016-17 Date: 08.08.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.
*AGENCY	:	**Executive Engineer,** KRIDL, Bangalore.
*NAME OF THE WORK	:	Providing CC road at A K Colony Singapura in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.
*REFERENCE	:	BBMP/EE/BTP/WO/97/2016-17 Dated: 05.08.2016
SAMPLE ID	:	Cement – Sample 2
SAMPLE RECEIVED ON	:	05.08.2016
PERIOD OF TESTING	:	05.08.2016 to 08.08.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	150 Minutes	Not Less than 30 Minutes
.	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: CTCE/BBMP/W.No.11/KRIDL/CSR-08/111a/AGG/GR/2016-17 : 08.08.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Executive Engineer,** KRIDL, Bangalore.

*** Name of Work** : Providing CC road at A K Colony Singapura in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : BBMP/EE/BTP/WO/97/2016-17 Dated: 05.08.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm) – Sample 2

Sample Received on : 05.08.2016

Date of Testing : 08.08.2016

Total Wt. of Aggregates in gms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.14	95-100	85-100
20	38.14	30-70	0-20
10	19.50	10-35	0-5
4.75	3.79	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.11/KRIDL/CSR-08/111a/SAND-Gradation/2016-17 : 08.08.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Executive Engineer,** KRIDL, Bangalore.

*** Name of Work** : Providing CC road at A K Colony Singapura in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore

Reference : BBMP/EE/BTP/WO/97/2016-17 Dated: 05.08.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates – Sample 2

Sample Received on : 05.08.2016

Date of Testing : 08.08.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.00	90-100	90-100	90-100	95-100
2.36	78.10	60-95	75-100	85-100	95-100
1.18	59.20	30-70	55-90	75-100	90-100
600 Micron	30.70	15-34	35-59	60-79	80-100
300 Micron	15.20	5-20	8-30	12-40	15-50
150 Micron	5.20	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.11/KRIDL/CSR-08/111a/CUBE/2016-17 25.08.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Executive Engineer,** KRIDL, Bangalore.

*** Name of the work** : Providing CC road at A K Colony Singapura in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Reference** : BBMP/EE/BTP/WO/97/2016-17 Dated: 05.08.2016

*** Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 25.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.08.2016	25.08.2016	8.102	328.5	14.60
2	18.08.2016	25.08.2016	8.260	338.3	15.04
3	18.08.2016	25.08.2016	8.356	347.3	15.44

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/W.No.11/KRIDL/CSR-08/111a/CUBE/2016-17 25.08.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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*** Agency** : **Executive Engineer,** KRIDL, Bangalore.

*** Name of the work** : Providing CC road at A K Colony Singapura in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Reference** : BBMP/EE/BTP/WO/97/2016-17 Dated: 05.08.2016

*** Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 25.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.08.2016	25.08.2016	8.185	329.9	14.66
2	18.08.2016	25.08.2016	8.225	339.6	15.09
3	18.08.2016	25.08.2016	8.358	352.6	15.67

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*** Reference** : BBMP/EE/BTP/WO/97/2016-17 Dated: 05.08.2016

*** Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 25.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.08.2016	25.08.2016	8.102	328.6	14.60
2	18.08.2016	25.08.2016	8.225	342.6	15.23
3	18.08.2016	25.08.2016	8.390	358.2	15.92

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*** Reference** : BBMP/EE/BTP/WO/97/2016-17 Dated: 05.08.2016

*** Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 25.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.08.2016	25.08.2016	8.117	330.3	14.68
2	18.08.2016	25.08.2016	8.230	342.5	15.22
3	18.08.2016	25.08.2016	8.380	357.9	15.91

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Job No.: CTCE/BBMP/W.No.11/KRIDL/CSR-08/111a/CUBE/2016-17 26.08.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Executive Engineer,** KRIDL, Bangalore.

*** Name of the work** : Providing CC road at A K Colony Singapura in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Reference** : BBMP/EE/BTP/WO/97/2016-17 Dated: 05.08.2016

*** Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 26.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.08.2016	26.08.2016	8.183	330.6	14.69
2	19.08.2016	26.08.2016	8.298	343.6	15.27
3	19.08.2016	26.08.2016	8.339	352.6	15.67

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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*** Reference** : BBMP/EE/BTP/WO/97/2016-17 Dated: 05.08.2016

*** Sample ID** : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 26.08.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.08.2016	26.08.2016	8.112	333.6	14.83
2	19.08.2016	26.08.2016	8.225	346.9	15.42
3	19.08.2016	26.08.2016	8.380	356.8	15.86

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